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APPLICATION NO. FILING DATE		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/931,028		08/17/2001	Toru Hayase	0445-0302P-SP	2692
2292	7590	09/14/2004		EXAMINER	
= :		KOLASCH & BIR	ANDERSON, C	ANDERSON, CATHARINE L	
PO BOX 74 FALLS CH	-	'A 22040-0747		ART UNIT	PAPER NUMBER
	,			3761	
				DATE MAILED: 09/14/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

			. 1
	Application No.	Applicant(s)	Uh
	09/931,028	HAYASE ET AL.	Ο.
Office Action Summary	Examiner	Art Unit	
·	C. Lynne Anderson	3761	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with	the correspondence addre	ess
A SHORTENED STATUTORY PERIOD FOR REPITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replif NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a rep ply within the statutory minimum of thirty (d will apply and will expire SIX (6) MONTH te, cause the application to become ABA	ly be timely filed 30) days will be considered timely. IS from the mailing date of this commodule. NDONED (35 U.S.C. § 133).	nunication.
Status			
1) Responsive to communication(s) filed on 14.	June 2004.		
· · · · · · · · · · · · · · · · · · ·	is action is non-final.		•
3) Since this application is in condition for allow	ance except for formal matter	rs, prosecution as to the m	erits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-8 is/are pending in the application			
4a) Of the above claim(s) is/are withdr	awn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-8</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	or election requirement.		
Application Papers			
9) The specification is objected to by the Examir	ner.	,	
10) ☐ The drawing(s) filed on is/are: a) ☐ ac		y the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the corre			1.121(d).
11) The oath or declaration is objected to by the E			
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreig	in priority under 35 U.S.C. § 1	119(a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:	,,	() ()	
1.⊠ Certified copies of the priority docume	nts have been received.		,
2. Certified copies of the priority documer		olication No.	
3. Copies of the certified copies of the pri			age
application from the International Bure			-9-
* See the attached detailed Office action for a lis	• • • • • • • • • • • • • • • • • • • •	eceived.	
	•		
Attachment(s)	_		
1) Notice of References Cited (PTO-892)		mmary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/06 		Mail Date ormal Patent Application (PTO-1)	52)
Paper No(s)/Mail Date	6) Other:	••	+·

Page 2

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 4, 7, and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Watanabe et al. (5,449,353).

Watanabe discloses a shorts-type disposable diaper 1, as shown in figure comprising a liquid permeable topsheet 2, a liquid impermeable anti-leakage sheet 3, and an absorbent core 4. The diaper 1 has a body-surrounding portion 5a and 5b, and a plurality of body-surrounding elastic members 11b extending in a circumferential width direction of the diaper 1, as shown in figure 1. The elastic members 11b are disposed in the side portions of the diaper 1 and are not disposed in at least a center portion of where the absorbent core 4 exists. The elastic members 11b are secured in their stretched state, as disclosed in column 4, lines 61-63, and form gathers, as disclosed in column 6, lines 15-19. The elastic members are disposed between and joined to the topsheet and the antileakage sheet, which are the inner and outer sheets of the exterior member of the diaper. The elastic members 11b are cut at their center portion so that they are not disposed in at least the center of the portion of the diaper 1 where the absorbent core 4 exists.

Art Unit: 3761

With respect to claims 4 and 8, an elastic member 8 is fixedly disposed in the waist opening portion, as shown in figure 1, and has a greater elongation stress than the body surrounding elastic members 11b, as disclosed in column 7, line 58 to column 8, line 1, and therefore has a greater 30% elongation stress. Given the ranges of elongation stresses disclosed, the ratio of elongations stresses will be between 1.5 and 6.0.

With respect to claim 7, the ratio of the width of the absorbent core 4 to the width of the diaper 1 is between 30% and 60%, as shown in figure 1. The ratio of the width of the portions containing the elastic members 11b to the width of the diaper 1 is between 40% and 95%, as shown in figure 1.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watanabe et al. (5,449,353) in view of Takabayashi et al. (5,817,087).

With respect to claim 2, Watanabe discloses all aspects of the claimed invention with the exception of the elastic members being positioned between the anti-leakage sheet and an outer sheet. Watanabe discloses a shorts-type disposable diaper 1, as shown in figure 2, comprising a liquid permeable topsheet 2, a liquid impermeable anti-leakage sheet 3, and an absorbent core 4.

The diaper 1 has a body-surrounding portion 5a and 5b, and a plurality of bodysurrounding elastic members 11b extending in a circumferential width direction of the diaper 1, as shown in figure 1. The elastic members 11b are disposed in the side portions of the diaper 1 and are not disposed in at least a center portion of where the absorbent core 4 exists. The elastic members 11b are secured in their stretched state, as disclosed in column 4, lines 61-63, and form gathers, as disclosed in column 6, lines 15-19. The elastic members are disposed between and joined to the topsheet and the anti-leakage sheet, which are the inner and outer sheets of the exterior member of the diaper. The elastic members 11b are cut at their center portion so that they are not disposed in at least the center of the portion of the diaper 1 where the absorbent core 4 exists.

Takabayashi discloses a disposable diaper 1, as shown in figure 1, comprising body-surrounding elastic members 31 and 41. The elastic members are positioned between an anti-leakage sheet 9 and an outer sheet 3, as shown in figure 6. Positioning the elastic members between the anti-leakage sheet and the outer sheet provide the diaper with increased comfort, as described in column 8, lines 47-56.

It would therefore be obvious to one of ordinary skill in the art at the time of invention to position the elastic members of Watanabe between the antileakage sheet and an outer sheet, as taught by Takabayashi, to provide the diaper with increased comfort.

Application/Control Number: 09/931,028

Art Unit: 3761

With respect to claim 3, the anti-leakage sheet and outer sheet comprise the inner and outer sheet of an exterior member, which is fixed to the absorbent body by partial bonding, as disclosed in column 5, lines 48-50.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Watanabe et al. (5,449,353) as applied to claim 1 above, and further in view of Iskra (5,021,050).

Watanabe discloses all aspects of the claimed invention but remains silent as to the Taber stiffness of the absorbent core.

Iskra discloses a disposable diaper 10, as shown in figure 1, comprising an absorbent core 16, as shown in figure 3. The absorbent core 16 has a Taber stiffness of less than about 7 g/cm, as disclosed in column 3, lines 31-40. The low Taber stiffness of the absorbent core 16 allows the absorbent core 16 to be flexible enough to bend to form the shape of the diaper 10, as shown in figure 1.

It would therefore be obvious to one of ordinary skill in the art at the time of invention to construct the absorbent core of Watanabe with a Taber stiffness of less than 7 g/cm, as taught by Iskra, to give the absorbent core suitable flexibility.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Watanabe et al. (5,449,353) as applied to claim 1 above.

Watanabe discloses all aspects of the claimed invention with the exception of the body-surrounding elastic members having inward ends that are slightly overlapping the absorbent core. It would have been an obvious matter of

Application/Control Number: 09/931,028

Art Unit: 3761

design choice to have the elastic members slightly overlap the absorbent core, since the applicant has not disclosed that this configuration serves any particular purpose or solves any stated problem, and it appears the invention would function equally well with the elastic members overlapping or not overlapping the absorbent core.

Response to Arguments

In response to the applicant's argument that Watanabe et al. fail to disclose body surrounding elastic members, it is noted that the elastic members 11b of Watanabe extend around the circumference of the diaper and therefore surround the body. The elastic members 11b of Watanabe are positioned lower on the body than the elastic members disclosed in the instant specification, but the portion of the wearer's body that is surrounded by the elastic members is not disclosed in the instant claims. The elastic members of Watanabe fulfill all the limitations of the claim.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory

Art Unit: 3761

period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to C. Lynne Anderson whose telephone number is (703) 306-5716. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Schwartz can be reached on (703) 308-1412. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 3761

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September 7, 2004

Larry I. Schwartz
Supervisory Patent Examiner
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